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FILE 'REGISTRY' ENTERED AT 15:12:51 ON 14 SEP 2004
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STRUCTURE FILE UPDATES: 13 SEP 2004 HIGHEST RN 744170-41-0
DICTIONARY FILE UPDATES: 13 SEP 2004 HIGHEST RN 744170-41-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

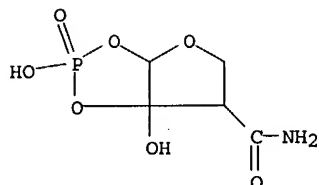
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

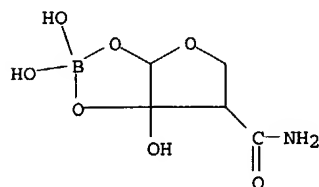
=> d ide l18 tot

L18 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 500729-75-9 REGISTRY
CN Furo[2,3-d]-1,3,2-dioxaphosphole-6-carboxamide, tetrahydro-2,6a-dihydroxy-
, 2-oxide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C5 H8 N O7 P
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L18 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 500729-74-8 REGISTRY
CN Boron, dihydroxy[tetrahydro-4-hydroxy-4,5-di(hydroxy-.kappa.O)-2-
furancarboxamidato(2-)]-, (T-4)- (9CI) (CA INDEX NAME)
MF C5 H9 B N O7
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

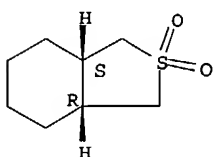


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Searched by Noble Jarrell

L18 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 66301-61-9 REGISTRY
 CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, cis-
 OTHER NAMES:
 CN cis-8-Thiabicyclo[4.3.0]nonane 8,8-dioxide
 FS STEREOSEARCH
 MF C8 H14 O2 S
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 14:12:42 ON 14 SEP 2004)

FILE 'REGISTRY' ENTERED AT 14:12:46 ON 14 SEP 2004

DEL DEL882Q1/A
 ACT WED770S/A

L1 STR
 L2 43 SEA FILE=REGISTRY SSS SAM L1

 L3 SCR 2039 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 2043 OR 205
 L4 44 L1 NOT L3
 L5 SCR 1838
 L6 45 L1 AND L5 NOT L3
 L7 STR L1
 L8 STR L7
 L9 SCR 1838 AND 2005
 L10 17 L9 NOT L3 AND L8
 L11 SCR 2039 OR 2041 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 204
 L12 0 L8 AND L9 NOT L11

FILE 'HCAPLUS' ENTERED AT 15:04:12 ON 14 SEP 2004

L14 1 US20040152669/PN

FILE 'REGISTRY' ENTERED AT 15:04:23 ON 14 SEP 2004

FILE 'HCAPLUS' ENTERED AT 15:04:25 ON 14 SEP 2004

L15 TRA L14 1- RN : 12 TERMS

FILE 'REGISTRY' ENTERED AT 15:04:26 ON 14 SEP 2004

L16 12 SEA L15
 L17 7 L16 AND NR>=1
 L18 3 L17 AND (C5H9BNO7 OR C5H8NO7P OR C8H14O2S)

FILE 'HCAPLUS' ENTERED AT 15:06:07 ON 14 SEP 2004

L19 4 L18

FILE 'HCAOLD' ENTERED AT 15:11:12 ON 14 SEP 2004

L20 0 L18

Searched by Noble Jarrell

FILE 'HCAPLUS' ENTERED AT 15:13:35 ON 14 SEP 2004

L21 E COOPER S/AU
 152 E3, E20-21
 E YAGER K/AU
 L22 22 E3, E11-13
 E COOPER STEPHEN/AU
 L23 157 E3, E18-21
 L24 9 QUOREX/CS, PA
 L25 1 L19 AND L21-24
 L26 3 L19 NOT L25
 L27 3 L26 AND (PY<=2001 OR AY<=2001 OR PRY<=2001 OR PD<20010824 OR AD

=> b hcap

FILE 'HCAPLUS' ENTERED AT 15:13:35 ON 14 SEP 2004

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FILE COVERS 1907 - 14 Sep 2004 VOL 141 ISS 12

FILE LAST UPDATED: 13 Sep 2004 (20040913/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr 125 tot

L25 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:173445 HCAPLUS

DN 138:221708

ED Entered STN: 07 Mar 2003

TI Preparation of antibacterial agents based upon oxyanion binding

IN Cooper, Stephen R.; Yager, Kraig M.

PA Quorex Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K031-69

CC 29-7 (Organometallic and Organometalloidal Compounds)

Section cross-reference(s): 1, 10, 25, 27, 28, 63

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003018029	A1	20030306	WO 2002-US27154	20020822
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003105062	A1	20030605	US 2002-227327	20020822
US 6737415	B2	20040518		
EP 1418923	A1	20040519	EP 2002-759457	20020822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2004152669	A1	20040805	US 2003-676770	20031001
PRAI US 2001-314683P	P	20010824		
US 2002-227327	A3	20020822		

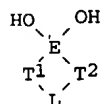
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WO 2002-US27154 W 20020822

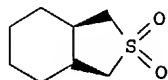
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003018029	ICM	A61K031-69
US 2003105062	ECLA	A61K031/38; A61K031/381; A61K031/425; A61K031/66; A61K031/69

OS CASREACT 138:221708; MARPAT 138:221708
GI



I



II

- AB Oxyanion compds. I [E = B, P, S; T1, T2 = O, NR, CH2; R = H, C1-8-alkyl, C1-8-oxoalkyl; L = ethylen, propylene, C4-6-alicyclic (cyclopentyl, cyclohexyl, pyrrolidine, THF, piperidine, pyran, dioxane, morpholine), aromatic (pyrrole, furan, pyridine, pyrimidine, pyrazine, imidazole, thiazole, oxazole, purine, indazole)] are useful for treating bacterial growth. Thus, sulfone II was prepared from cis-1,2-cyclohexanedimethanol dimesylate via reaction with Na2S in DMSO followed by S-oxidation with monopero-phthalic acid in Et2O. The compds. may be used to treat bacterial infections in human beings and to regulate biofilm formation (no data). Pharmaceutical compns. comprising one or more such compds. are useful for treating bacterial infections in human beings (no data).
- ST antibacterial oxoanion prepn; bacterial infection human treatment
oxoanion; microbial biofilm regulation oxoanion
- IT Infection
(bacterial, treatment; preparation of antibacterial agents based upon oxoanion binding)
- IT Carbonates, preparation
Sulfates, preparation
Sulfites
Sulfones
Urethanes
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cyclic; preparation of antibacterial agents based upon oxoanion binding)
- IT Borates
Phosphates, preparation
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(esters; preparation of antibacterial agents based upon oxoanion binding)
- IT Biofilms (microbial)
(formation regulator; preparation of antibacterial agents based upon oxoanion binding)
- IT Oxyanions
(oxoanions; preparation of antibacterial agents based upon oxoanion binding)
- IT Antibacterial agents
Human
(preparation of antibacterial agents based upon oxoanion binding)
- IT Amides, preparation
Sulfates, preparation
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(sulfamates, cyclic sulfamidates and sulfamidites; preparation of antibacterial agents based upon oxoanion binding)
- IT Cyclic compounds
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(sulfones; preparation of antibacterial agents based upon oxoanion binding)
- IT 5329-14-6DP, Sulfamidic acid, cyclic derivs.
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cyclic; preparation of antibacterial agents based upon oxoanion binding)
- IT 66347-68-0, cis-Cyclohexane-1,2-dimethanol dimethanesulfonate
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation of, with sodium sulfide; preparation of antibacterial agents based upon oxoanion binding)

IT 54053-76-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and S-oxidation of; preparation of antibacterial agents based upon oxoanion binding)

IT 57-13-6DP, Urea, cyclic derivs. 2171-74-6P, o-Phenylene carbonate 6303-21-5DP, Phosphinic acid, cyclic esters and amides 7803-58-9DP, Sulfamide, cyclic derivs. 10043-91-1DP, Phosphorodiamidic acid, cyclic derivs. 66301-61-9P, cis-8-Thiabicyclo[4.3.0]nonane 8,8-dioxide 500729-74-8P 500729-75-9P
 RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of antibacterial agents based upon oxoanion binding)

IT 120-80-9, Catechol, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of antibacterial agents based upon oxoanion binding)

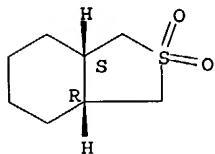
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
 (1) Coddington; Journal of Coordination Chemistry 1989, V20(1), P27 HCAPLUS
 (2) Dale, J; US 3053880 A 1962 HCAPLUS
 (3) de Gray; US 3325262 A 1967 HCAPLUS
 (4) Degray; US 3564091 A 1971 HCAPLUS
 (5) Sagulenko; Viniti 1984, P4184 HCAPLUS
 (6) Singer, M; US 3873279 A 1975 HCAPLUS

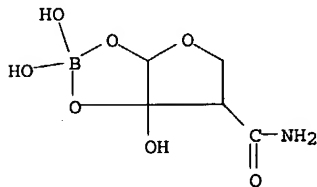
IT 66301-61-9P, cis-8-Thiabicyclo[4.3.0]nonane 8,8-dioxide 500729-74-8P 500729-75-9P
 RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of antibacterial agents based upon oxoanion binding)

RN 66301-61-9 HCAPLUS
 CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)

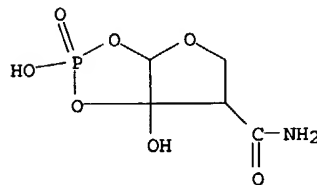
Relative stereochemistry.



RN 500729-74-8 HCAPLUS
 CN Boron, dihydroxy[tetrahydro-4-hydroxy-4,5-di(hydroxy-.kappa.O)-2-furancarboxamidato(2-)]-, (T-4)- (9CI) (CA INDEX NAME)

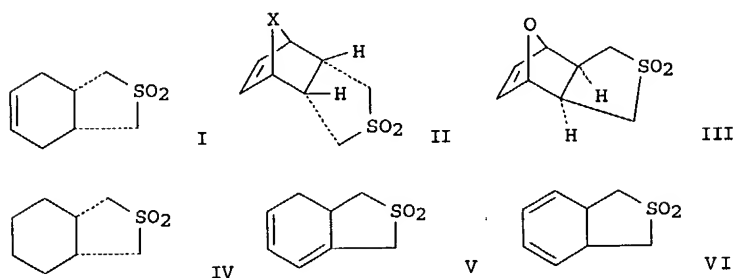


RN 500729-75-9 HCAPLUS
 CN Furo[2,3-d]-1,3,2-dioxaphosphole-6-carboxamide, tetrahydro-2,6a-dihydroxy-, 2-oxide (9CI) (CA INDEX NAME)



=> d all hitstr 127 tot

L27 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1995:58482 HCAPLUS
 DN 123:111417
 ED Entered STN: 08 Nov 1994
 TI Fragmentation patterns in the gas-phase pyrolysis of some bi- and tricyclic sulfolanes related to the 8-thiabicyclo[4.3.0]non-3-ene 8,8-dioxide ring system
 AU Aitken, R. Alan; Cadogan, J. I. G.; Gosney, Ian; Newlands, Stephen F.
 CS Dep. Chem., Univ. Edinburgh, Edinburgh, EH9 3JJ, UK
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1994), (16), 2301-8
 CODEN: JCPRB4; ISSN: 0300-922X
 DT Journal
 LA English
 CC 22-8 (Physical Organic Chemistry)
 GI



AB Depending upon the degree of ring strain, the thermal breakdown of cis-8-thiabicyclo[4.3.0]non-3-ene 8,8-dioxide (I) and related ring systems in the gas phase follows widely differing pathways. Decomposition of I occurs only under forcing conditions, resulting in complete fragmentation of the sulfolane ring to give benzene and toluene, while pyrolysis of the 2,5-bridged analogs II (X = CH₂, CH₂CH₂) and III proceeds by a retro-Diels-Alder reaction at much lower temps. to give 1,3-dienes and the decomposition products of 3-sulfolene, buta-1,3-diene and SO₂. Epoxidn. of the double bond in these compds. results in a marked change in their thermal fragmentation behavior; only SO₂ is lost to produce novel divinyl epoxides. The corresponding N-(ethoxycarbonyl)aziridines, formed by photolysis of the unsatd. sulfones in Et azidoformate, undergo extensive decomposition on pyrolysis and do not yield any useful products. The saturated sulfone IV gives the expected octa-1,7-diene upon flash vacuum pyrolysis (FVP), but only under relatively severe conditions. Three isomeric diene sulfones (V and cis- and trans-VI) have also been examined and show a varied pattern of reactivity under FVP conditions.

ST pyrolysis bicyclic tricyclic sulfolane; thiabicyclononene dioxide pyrolysis

IT Thermal decomposition
 (flash, of bi- and tricyclic sulfolanes)

IT 81872-47-1

RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization reaction with sodium sulfide)

IT 1871-52-9, 1,3,5-Cyclooctatriene 3725-28-8, Bicyclo[4.2.0]octa-2,4-diene
 RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
 (formation in pyrolysis of thiabicyclononadiene dioxide)

IT 2434-67-5 74626-69-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (oxidation of)

IT 165727-63-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and conversion to thiabicyclononadiene)

IT 165727-57-1P

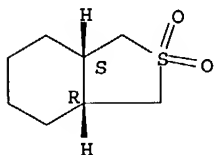
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization reaction with sodium sulfide)

IT 165727-64-0P

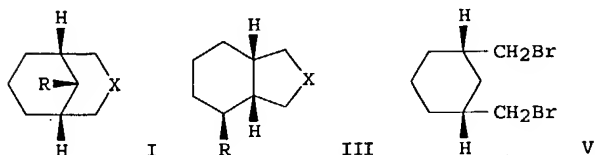
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and debromination of)
 IT 165727-55-9P 165727-56-0P 165727-68-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and oxidation of)
 IT 53292-01-6P 66301-61-9P 83947-07-3P 92688-77-2P
 92688-78-3P 165727-65-1P 165727-66-2P 165727-67-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and pyrolysis of)
 IT 86814-82-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and tosylation of)
 IT 165727-58-2 165727-59-3 165727-60-6 165727-61-7 165727-62-8
 RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
 (preparation of)
 IT 2471-91-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 IT 98-59-9, Toluene-p-sulfonyl chloride 92688-88-5 95722-43-3
 166019-64-3 166019-65-4 166019-66-5 166019-67-6 166019-68-7
 166019-69-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (pyrolysis of)
 IT 5675-13-8, trans-1,2-Dihydrophthalic acid
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reduction of)
 IT 106137-27-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (tosylation of)
 IT 66301-61-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and pyrolysis of)
 RN 66301-61-9 HCAPLUS
 CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA
 INDEX NAME)

Relative stereochemistry.



L27 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1984:6274 HCAPLUS
 DN 100:6274
 ED Entered STN: 12 May 1984
 TI Synthesis of cis-3-thiabicyclo[4.3.0]nonane and cis-3-
 thiabicyclo[3.3.1]nonane
 AU Volynskii, N. P.; Urin, A. B.; Gal'pern, G. D.
 CS Inst. Neftekhim. Sint. im. Topchieva, Moscow, USSR
 SO Neftekhimiya (1983), 23(4), 542-7
 CODEN: NEFTAH; ISSN: 0028-2421
 DT Journal
 LA Russian
 CC 27-15 (Heterocyclic Compounds (One Hetero Atom))
 OS CASREACT 100:6274
 GI



Searched by Noble Jarrell

AB Treatment of cyclohexene with paraformaldehyde and HCl gave I (R = Cl, X = O) (II) and III (R = Cl, X = O) (IV). Dechlorination of II by Na-MeOH gave I (R = H) whose pyran ring was cleaved by HBr to give V which was cyclized by Na₂S to give I (R = H, X = S). Subsequent oxidation by 30% H₂O₂ gave the corresponding sulfoxide and sulfone. A similar series of reactions with IV led to III (R = H, X = S).

ST thiabicyclononane isomer; bicyclononane thia isomer; benzothiophene octahydro

IT 30525-89-4
RL: PROC (Process)
(addition of, to cyclohexene in presence of hydrochloric acid)

IT 13019-30-2P 57702-85-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cyclization by sodium sulfide)

IT 87947-22-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydrochlorination of)

IT 13149-01-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and furan ring cleavage by hydrobromic acid)

IT 50305-98-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

IT 20742-48-7P 54053-76-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

IT 280-71-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and pyran ring cleavage by hydrobromic acid)

IT 66301-61-9P 87947-23-7P 87947-24-8P 87984-60-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 7639-10-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, dechlorination, and dehydrochlorination of)

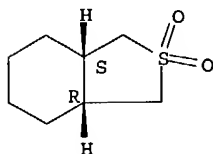
IT 110-83-8, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with paraformaldehyde in hydrochloric acid)

IT 66301-61-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 66301-61-9 HCAPLUS

CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L27 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1978:169654 HCAPLUS

DN 88:169654

ED Entered STN: 12 May 1984

TI 1,2-Dimethylcyclobutenes by reductive ring-contraction of sulfolanes:
cis-7,8-dimethylbicyclo[4.2.0]oct-7-ene

AU Photis, James M.; Paquette, Leo A.

CS Dep. Chem., Ohio State Univ., Columbus, OH, USA

SO Organic Syntheses (1977), 57, 53-60
CODEN: ORSYAT; ISSN: 0078-6209

DT Journal

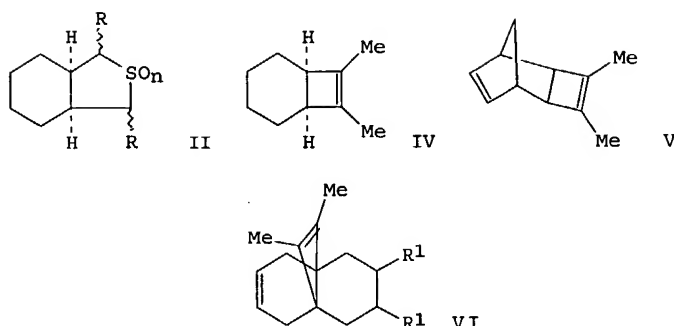
LA English

CC 24-7 (Alicyclic Compounds)

Searched by Noble Jarrell

Section cross-reference(s): 27

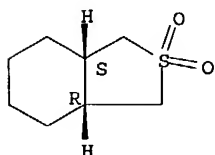
GI



- AB Treatment of cis-1,2-cyclohexanedicarboxylic anhydride with LiAlH₄ in THF gave 98-100% cis-1,2-cyclohexanedimethanol, which was treated with MeSO₂Cl to give 96-8% bis(methanesulfonate) I. Treatment of I with Na₂S gave 68.0-70.5% II (R = H, N = O), which was oxidized to give 92-5% II (R = H, n = 2) (III). Treatment of III with BuLi and MeS gave 29.5-37% IV. Six addnl. compds., e.g. V and VI (R₁ = H; R₁R₁ = bond), were prepared in 20-67% yield.
- ST redn ring contraction sulfolane; cyclobutene dimethyl; bicyclooctene dimethyl; tricyclic compd
- IT Ring contraction
(reduction and, of sulfolane)
- IT Reduction
(ring contraction and, of sulfolanes)
- IT 74-88-4, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation by, of octahydrobenzothiophene oxide)
- IT 124-63-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification by, of cyclohexanedimethanol)
- IT 66301-61-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of)
- IT 54053-76-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
- IT 15753-50-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with methanesulfonyl chloride)
- IT 66347-68-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with sodium sulfide)
- IT 60090-27-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reductive ring contraction of)
- IT 53291-98-8P 53292-02-7P 53292-03-8P 53292-10-7P 53503-75-6P
61122-02-9P 66301-62-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
- IT 13149-00-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)
- IT 17853-54-2 24139-28-4 33802-56-1 41065-78-5 53292-00-5
53292-09-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reductive ring contraction of)
- IT 66301-61-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of)

RN 66301-61-9 HCAPLUS
CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA
INDEX NAME)

Relative stereochemistry.



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